

ABSTRACT OF THE DISCLOSURE

An optical probe system comprises an optical probe that is inserted into a body cavity, a light source that generates light which is irradiated to an object, and a high-magnification observation unit included in the distal section of the optical probe. The optical probe system further comprises: an image digitization unit that digitizes a luminance signal produced by the high-magnification observation unit; an image parameter sampling unit that samples an image parameter from an image; an optimization parameter calculation unit that calculates an optimization parameter on the basis of the image parameter; an image optimization unit that optimizes an image according to the optimization parameter; an image display device on which an optimized image is displayed; and a digital image preservation unit in which a digitized image is preserved.